S PATENT AND TRADEMARK OFFICE

Appl. No.

09/769,604

Confirmation No.: 4397

Applicant

Stephen M. Howard et al.

Filed

January 25, 2001

T.C./A.U.

2157

Examiner

Ramy M. Osman

Docket No.

EMC-002PUS

Customer No.:

022494

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29 Mar 03 Date of Signature and Mail Deposit

Paul D. Durkee

Reg. No. 41,003

REQUEST FOR EXTENSION OF TIME

MS Amendment Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Sir:

It is requested that the time for response to this Office Action dated November 30, 2004 be extended for a one-month period of time to end March 30, 2005, under the provisions of 37 C.F.R. §1.136. The fee of \$120.00 called for by 37 C.F.R. §1.17 is enclosed herewith.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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By:

Paul D. Durkee Reg. No. 41,003

REQUEST FOR REFUND

Deposit Account Branch Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Attn: Latrice Sims

Dear Latrice:

Our office filed a Response on March 29, 2005 to an Office Action dated November 30, 2004. When filing this Response, we filed a one month extension of time and included a check in the amount of \$120.00 to cover the cost of the one month extension of time. Our monthly deposit account number 50-0845 for the month of June, 2005, was charged in the amount of \$390.00 for a three month extension of time. Note that when the response was filed a one month extension of

time was due and a check in the amount of \$120.00 was included with the filing. Therefore, please credit our deposit account for the erroneous charge made by the USPTO for \$390.00.

Enclosed is a copy of the Monthly Statement of Deposit Account for Deposit Account 50-0845 showing the erroneous charge to Docket No. EMC-002PUS, Application Number 09/769,604. Also enclosed is a copy of the Response as filed.

Please call the undersigned attorney if you have any questions or if further information is required.

Dated: 7) u 05

Respectfully submitted,

DALY, CROWLEY, MOFFORD & DURKEE, LLP

Bv:

Paul D. Durkee Reg. No. 41,003

Attorney for Applicant(s)

354A Turnpike Street, Suite 301A

Canton, MA 02021-2714

Tel.: (781) 401-9988, ext. 21 Fax: (781) 401-9966

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PTO/SB/21 (09-04)

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o a collection of information unless it displays a valid OMB control number. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a c Application Number 09/769,604 Filing Date January 25, 2001 TRANSMITTAL First Named Inventor Stephen M. Howard **FORM** Art Unit 2157 **Examiner Name** Ramy M. Osman (to be used for all correspondence after initial filing) **Attorney Docket Number** EMC-002PUS Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication to TC Drawing(s) Fee Transmittal Form Appeal Communication to Board Licensing-related Papers Fee Attached ~ of Appeals and Interferences Petition Appeal Communication to TC 1 Amendment/Reply Appeal Notice, Brief, Reply Brief Petition to Convert to a Provisional Application **Proprietary Information** After Final Power of Attorney, Revocation Affidavits/declaration(s) Status Letter Change of Correspondence Address Other Enclosure(s) (please Identify Extension of Time Request below): Terminal Disclaimer Return Postcard Express Abandonment Request Request for Refund Information Disclosure Statement CD, Number of CD(s) Certified Copy of Priority Landscape Table on CD Document(s) Reply to Missing Parts/ Remarks Incomplete Application In the event a petition for extension of time is required by this paper and not Reply to Missing Parts under 37 CFR 1.52 or 1.53 otherwise provided, such petition is hereby made and authorization is provided herewith to charge deposit account No. 50-0845 for the cost of SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name Daly, Crowley, Moffard & Durkee, ULP Signature Printed name Paul D. Durkee Reg. No. Date Mas 41.003 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

29 Mar US Date Paul D. Durkee Typed or printed name This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to

Signature

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Signature	XXXXX	A Justine	(Attorney/Agent)	41,003				
Name (Print/Type)	Paul D). Durkee			Date 29 May US			

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.

09/769,604

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Applicant

Stephen M. Howard et al.

Applicant Filed

: January 25, 2001

T.C./A.U.

2157

Examiner

Ramy M. Osman

Docket No. :

EMC-002PUS

Customer No.:

022494

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Date of Signature and Mail Deposit

By:_

Paul D. Durkee Reg. No. 41,003

REQUEST FOR EXTENSION OF TIME

MS Amendment Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Sir:

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In the event any additional fee is required, please charge such amount to the Patent and Trademark Office Deposit Account No. 50-0845.

Dated: 29 Mar 115

Respectfully submitted,

Daly, Growley & Mofforp, LLP

Paul D. Durkee Reg. No. 41,003

Attorney for Applicant(s) 275 Turnpike Street, Suite 101 Canton, MA 02021-2354

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Fax: (781) 401-9966 pdd@dc-m.com

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicant

Stephen M. Howard, et al.

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Examiner

Ramy M. Osman

Docket No.

EMC-002PUS

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Date of Signature and Mail Deposit

Paul D. Durkee

Reg. No. 41,003

RESPONSE

Mail Stop Amendment Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

In response to the Official Action dated November 30, 2004, please amend the above-identified patent application as follows.

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 6 of this paper.

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of the claims in the application:

- 1 1. (Currently Amended) A method of restoring backed up data, comprising:
- 2 retrieving, by a data backup and storage system, a list of objects that are restorable
- 3 by a client;
- displaying the list of restorable objects for browsing by a user;
- generating a list of restorable objects marked for restoration by the user, wherein
- 6 each of the restorable objects is associated with a particular library;
- 7 submitting [[a]] the list of marked restorable objects [[marked]] for restoration by
- 8 the client;
- 9 executing a restoration of the submitted <u>list of marked</u> restorable objects via a
- 10 remote procedure call such that multiple restore submissions can be made prior to restore
- 11 execution.
- 1 2. (Original) The method according to claim 1, further including executing
- 2 multiple restore submissions concurrently.
- 1 3. (Original) The method according to claim 1, further including initiating a
- 2 restore session for the client.
- 1 4. (Original) The method according to claim 3, further including creating a
- 2 restore engine process for the retrieving, browsing, submitting and executing of
- 3 restore objects.

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- 1 5. (Original) The method according to claim 4, wherein the client communicates
- with the restore engine process via remote procedure calls.
 - 6. (Original) The method according to claim 4, wherein the restore engine
- 2 process is created by a dispatch daemon on a backup storage system server.

- 7. (Original) The method according to claim 4, wherein the restore engine process is terminated upon completion of the restore execution.
- 1 8. (Original) The method according to claim 4, wherein the restore engine
 2 process runs on a backup data storage server and further including creating a work
- 3 item restore process on the backup data server, a server restore process for
- 4 generating a stream of data to be restored, and a client restore process for
- 5 receiving the data stream.
- 1 9. (Original) The method according to claim 4, further including detecting and
- 2 identifying libraries that support associated catalogs of backed up data for
- 3 processing of backed up data by the restore engine process.
- 1 10. (Original) The method according to claim 9, further including adding a new
- 2 library supporting new methods of backing up data.
- 1 11. (Original) The method according to claim 9, further including determining
- 2 object types for backed up data supported by the libraries.
- 1 12. (Currently Amended) A method of restoring backed up data, comprising:
- 2 initiating a restore session for a first client via a dispatch daemon running on a
- data storage server through a graphical user interface associated with the client;
- 4 creating a restore engine process in response to a request by the dispatch daemon;
- establishing a connection between the graphical user interface and the restore
- 6 engine process;
- displaying a list of restorable objects for browsing by a user associated with the
- 8 client via the graphical user interface under the control of the restore engine process;
- g [determining] identifying restorable objects marked for restoration by the user
- 10 under control of the restore engine process;
- storing a list of marked restorable objects submitted by the client to the restore
- 12 engine process; and

- executing the restoration of the marked objects under control of the restore engine process independently of the browsing, marking and submitting of the restorable objects such that multiple restore submissions can be made prior to restore execution.
 - 1 13. (Original) The method according to claim 12, wherein the client communicates with the restore engine process via remote procedure calls.
 - 1 14. (Original) The method according to claim 12, further including supporting a new backup data method by adding a library corresponding to the new backup data method.
 - 1 15. (Currently Amended) A data backup and storage system, comprising:
 - 2 a backup storage system for storing backup data from a client storage system
 - 3 under control of a user associated with the client, the backup storage system including:
 - a server creating a restore engine process as part of a restore session with a
 - 5 client, the restore engine communicating with the client via remote procedure calls to
 - 6 allow the user to browse restorable objects, mark selected ones of the restorable objects
 - 7 for restoration, submit a list of restorable objects marked by the user, and execute
 - 8 restoration of the submitted list of restorable objects, wherein the restore execution is
 - 9 performed independently of the browse, mark and submit operations such that multiple
 - 10 restore submissions can be made prior to execution of the restore; and
 - a work item restore process, a server restore process, and a client restore process created by the restore engine process to form a restore triangle for executing the restore

operation..

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- 1 16. (Canceled)
- 1 17. (Original) The system according to claim 15, wherein the restore engine 2 process processes libraries upon restore initialization such that libraries can be 3 added to the system for supporting new backup methods.

Appl. No. 09/769,604 Reply to Office Action of November 30, 2004

- 1 18. (Original) · The system according to claim 17, further including a dispatch daemon for initiating the restore session.
- 1 19. (Original) The system according to claim 15, further including further restore engine processes corresponding to further restore sessions initiated by additional clients.
- 1 20. (Original) The system according to claim 19, further including additional restore triangles for executing multiple work item restores concurrently.

REMARKS

Applicant respectfully requests reconsideration of the above-identified patent application in view of the amendments set forth above and the remarks below.

Claims 1-15 and 17-20 are pending in the application and are rejected. Claim 16 was previously canceled.

Claim Objections

Claim 15 is amended to include a colon after the word "including" as suggested by the Examiner.

The Rejections Under 35 U.S.C. §112, First Paragraph

The Examiner rejects Claim 1 under 35 U.S.C. §112 first paragraph first paragraph. While Applicant does not necessarily agree with the Examiner's assertion that claim 1 omits essential elements, Applicant amends claim 1 to clarify browsing and marking steps. Applicant makes this amendment not for reasons of patentability but rather to expedite allowance of the present application.

The Rejections Under 35 U.S.C. §112, Second Paragraph

The Examiner rejects Claims 1-11 under 35 U.S.C. §112 second paragraph as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The Examiner asserts that the limitation "retrieving a list of object..." is indefinite on the basis that there is no indication as to who is retrieving the list. While Applicant does not agree that the retrieving must be identified in present method claim 1, Applicant amends claim 1 to clarify that a data backup and storage system retrieves the list of objects to expedite allowance of the present application and not for reasons of patentability. Applicant also amends claim 1 to clarify the lists of different objects as set forth above.

Claim 12 is amended to recite "identifying" to replace "determining" to more clearly define the claimed invention.

With respect to claim 15 and the term "restore triangle," Applicant is unclear as to the Examiner's basis for rejection. As the Examiner notes, this term is shown and described multiple times in Applicant's specification. In addition, in an exemplary embodiment Applicant shows well-known Unix functions (auxproc, recxcpio, xcpiogen) that can be used to provide the "restore triangle," which is described in the specification.

The Prior Art Rejections

The Examiner rejects Claims 1-20 under 35 U.S.C. §103(a) over U.S. Patent No. 6,611,850 to Shen in view of U.S. Patent No. 6,427,149 to Rodriguez.

Shen merely discloses an apparatus for file backup and restoration. Applicant submits that Shen clearly falls within the prior art systems described in the Background of the Invention section of Applicant's specification that require serial browsing, marking and submitting of items for restoration. Further, as described in the passage in Shen cited by the Examiner (col. 19, lines 10-30 and 35-50), Shen is limited to restoration of a *file*. Shen does not contemplate multiple restoring *objects*, such as databases, files, etc., as described in Applicant's specification, let alone executing a restoration of the submitted list of marked restorable objects via a remote procedure call such that multiple restore submissions can be made prior to restore execution.

In contrast, amended claim 1 requires a method of restoring backed up data, including retrieving, by a data backup and storage system, a list of objects that are restorable by a client, displaying the list of restorable objects for browsing by a user, generating a list of restorable objects marked for restoration by the user, wherein each of the restorable objects is associated with a particular library, submitting the list of marked restorable objects for restoration by the client, and executing a restoration of the submitted list of marked restorable objects via a remote procedure call such that multiple restore submissions can be made prior to restore execution.

Applicant submits that Shen simply does not contemplate the claimed method of restoring backed up data, which requires, among other things, generating a list of restorable objects marked for restoration by the user, wherein each of the restorable objects is associated with a particular library, and executing a restoration of the submitted list of marked restorable objects via a remote procedure call such that multiple restore submissions can be made prior to restore execution.

While Applicant submits that the invention as claimed is quite different from that of Shen and/or Rodriguez, Applicant amends claim 1 to clarify that "each of the restorable objects is associated with a particular library," as described in the specification, at page 13, for example. Libraries are further described throughout the application. Libraries provide information contained in catalogs of back up data to a restore engine for allowing a user to browse and mark files for restoration. Submit objects include one or more submit files containing information extracted from the library catalogs associated with marked objects by the restore engine to enable restoration of the objects.

Applicant submits that Rodriguez fails to overcome any of the deficiencies of Shen set forth above.

Rodriguez merely teaches a technique to enable an Internet user to utilize a browser application to see and select files in a ZIP archive file by providing hyper text links in an HTML document. Rodriguez avoids the need for a user to download the entire ZIP archive file. Applicant presumes the Examiner is quite familiar with zipping files to compress data in an archive file and unzipping archive files. Applicant submits that the trivial archive file recovery technique taught by Rodriquez is quite irrelevant to backing up huge amounts of data contained in submit objects, which can include databases, and restoring the backed up data using a data backup system, such as the one shown and described in Applicant's specification.

Applicant submits that Rodriguez fails to teach or suggest any of the claimed method of restoring backed up data, which requires, among other things, generating a list of restorable objects marked for restoration by the user, wherein each of the restorable objects is associated with a particular library, and executing a restoration of the submitted list of marked restorable objects via a remote procedure call such that multiple restore submissions can be made prior to restore execution.

Accordingly, Applicant submits that claim 1 is patentably distinguishable over Shen and/or Rodriquez. For at least substantially the same reasons, Applicant submits that claims 2-15 and 17-20 are also distinguishable over the cited references.

Moreover, as the Examiner is well aware, to properly establish prima facie obviousness a motivation to combine the references as proposed must be identified. In the present case, the Examiner has impermissibly used Applicant's disclosure as a roadmap in attempt to identify and combine certain features of the claimed invention to establish, using hindsight, that the invention is obvious. The Examiner has identified no such motivation to combine the references as proposed. Applicant submits that, absent Applicant's specification, the Examiner can identify no such motivation since none exists. Shen is directed to a system for backing up and restoring data using a "backup copy generating process" and a "restore process," which are explained in great detail. Rodriquez is directed to simply accessing files in a zipped archive file over the Internet using a browser, which is hardly compatible with the system taught by Shen. Rodriquez is limited to zipped archive files and has no relationship to, and is useless for, the backup and restore system of Shen.

In view of the above, Applicant submits that claims 1-15 and 17-20 are patentably distinguishable over the cited references.

The Examiner is respectfully invited to telephone the undersigning attorney if there are any questions regarding this Amendment or this application.

Appl. No. 09/769.604 Reply to Office Action of November 30, 2004

Applicant does not acquiesce to any assertion made by the Examiner that is not specifically addressed herein.

The Assistant Commissioner is hereby authorized to charge payment of any additional fees associated with this communication or credit any overpayment to Deposit Account No. 500845.

Dated: 29 Mar V5

Respectfully submitted,

DALY, CROWLEY & MOFFORD, LLP

Paul D. Durkee Reg. No. 41,003

Attorney for Applicant(s)
275 Turnpike Street, Suite 101
Canton, MA 02021-2354

Tel.: (781) 401-9988, Fax: (781) 401-9966 pdd@dc-m.com

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Deposit Account Statement

Requested Statement Month:

June 2005

Deposit Account Number:

500845

Name:

DALY, CROWLEY, & MOFFORD

Attention:

JUDITH C CROWLEY, ESQ **275 TURNPIKE STREET**

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